	Application No.	Applicant(s)
Notice of Allowability	10/673,656	NAKAMURA ET AL.
	Examiner	Art Unit
	CHRISTOPHER P. GREY	2474
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is so and MPEP 1308.	this application. If not included nication will be mailed in due course. THIS
1. X This communication is responsive to the communication file	<u>led on 1/26/11</u> .	
2. ☑ The allowed claim(s) is/are <u>23-26</u> .		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM 	been received. been received in Application cuments have been received of this communication to file	n No in this national stage application from the
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	iziti of the appheation.	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Su Paper No./I 7. ☑ Examiner's /	ormal Patent Application Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Thomas Bonacci on 4/7/11.

The application has been amended as follows:

23. (Currently Amended) A digital radio communication method comprising the steps of: transmitting, on a transmitting side, known pilot symbols at every slot, a predetermined number of said slots forming a frame;

receiving, on a receiving side, said known pilot symbols, and carrying out coherent detection using the received known pilot symbols,

wherein said known pilot symbols of each slot consists of a known pilot symbol portion and a sync word portion for frame alignment, the known pilot symbol portion and the sync word portion in each slot being aligned consecutively; , and

establishing frame alignment using said known sync word portion; and
after establishing the frame alignment, carrying out coherent detection
using the received known pilot symbols,

wherein said step of carrying out coherent detection carries out the coherent detection using said known pilot symbol portion **and sync word portion**. , and employs,

after establishing the frame alignment using said sync word portion, said sync word portion for the coherent detection.

24. (Previously Presented) The digital radio communication method as claimed in claim 23, wherein said known pilot symbols of each slot comprise multiple known pilot symbol portions and multiple sync word portions aligned consecutively, and wherein said known pilot symbol portions and said sync word portions are transmitted alternately in each slot.

25. (Currently Amended) A reception method for a digital radio communication method comprising the steps of:

receiving known pilot symbols, which have been transmitted at every slot, a predetermined number of said slots forming a frame, ; and

carrying out coherent detection using the received known pilot symbols,

wherein said known pilot symbols of each slot consist of a known pilot symbol portion and a sync word portion for frame alignment, the known pilot symbol portion and the sync word portion in each slot being aligned consecutively; and

establishing frame alignment using said known sync word portion; and
after establishing the frame alignment, carrying out coherent detection
using the received known pilot symbols,

wherein said step of carrying out coherent detection carries out the coherent detection using said known pilot symbol portion **and sync word portion**. , and employs,

after establishing the frame alignment using said sync word portion, said sync word portion for the coherent detection.

26. (Previously Presented) The reception method for a digital radio communication method as claimed in claim 25, wherein said known pilot symbols of each slot comprise multiple known pilot symbol portions and multiple sync word portions aligned consecutively, and wherein said known pilot symbol portions and said sync word portions are transmitted alternately in each slot.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER P. GREY whose telephone number is (571)272-3160. The examiner can normally be reached on 10AM-7:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Moe Aung can be reached on (571)272-7314. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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